

## Reducing optical definition for colour measurements of moving, textured, patterned objects for quality control

Patent Number: DE19637234

Publication date: 1998-03-26

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Requested Patent: ☒ DE19637234

Application Number: DE19961037234 19960913

Priority Number(s): DE19961037234 19960913

IPC Classification: G01J3/46 ; G01J3/52 ; G01N21/88 ; D06H3/08 ; A22B5/00

EC Classification: G01J3/50, A22B5/00C, G01N21/88B, G01N21/898A

Equivalents:

### Abstract

This new automatic method measures colour purity of textured or non-textured surfaces ("the surface"). It requires one or more video cameras and a computer to evaluate the signals measured. It is especially suitable for quality control. In the novel method, the video camera measures the colour value of one or more patterned reference plaques; before, during or after measuring the surface colour value. The optical definition of the equipment is reduced to such a level, that the structure of the surface and/or the reference plaque pattern is not registered. A signal is formed, as a combined function of the surface and plaque measurements. This is the integrated relative colour value, a measurement relative to the reference plaque. Also claimed are: use of the method for automatic measurement of the colour run of a textile band; and use in quality control of meat and its separation into quality classes.

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